User Manual

WB-8211SDUU

Camera Server

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I. Preface

WB-8211SDUUU is a 1 channel video server. It builds in web server. User views real-time video via IE browser. WB-8211SDUU supports MPEG-4 and M-JPEG video compression which provides smooth and high quality video. The video can be stored in the SD card, and can be playback remotely.
WB-8211SDUU is an easy-to-use video server which can connect any kind of analogue camera to fit the customer’s need.

II. Product Specifications

- MPEG4/ M-JPEG compression
- Supports SD card for local recording
- Wireless network connection(Optional)
- 2-way audio
- Support PTZ control
- Online firmware upgrade
- Real-time video recording
- Compatible with Microsoft Windows Media Player

Product Specifications

Hardware	
CPU	ARM 9 ,32 bit RISC
RAM	64MB
ROM	8MB
Video in/ out	1 in/ 1 out, BNC connector
Audio in/ out	1 in/ 1 out
I/O	2 in/ 2 Relay out (COM. & N.O. & N.C.)
RS-485	1, for PTZ control
RS-232	Yes
Power Consumption	DC 12V, 1A, 4W
Dimensions	134mm (W) x 42mm (L) x 107mm (D)
Network	
Ethernet	10/ 100 Base-T
Wireless (Optional)	802.11b/g
WEP	64/ 128 bit
Network Protocol	HTTP, TCP/ IP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP
System	
Video Resolution	NTSC: 720x480, 352x240, 176x120 PAL: 720x576, 352x288, 176x144
Image snapshot	Yes
Full screen monitoring	Yes
Compression format	MPEG-4/ M-JPEG
Video bitrate adjust	CBR, VBR
Motion Detection	Yes, 3 different areas
Triggered action	Mail, FTP, Save to SD card
Pre/ Post alarm	Yes, configurable
Remote PTZ control	Yes
Security	Password protection
Firmware upgrade	HTTP mode, can be upgraded remotely
Simultaneous connection	Up to 10
Audio	Yes, 2-way
SD card management	
Recording trigger	Motion Detection, IP check, Network down (Wire connection only)
Video format	AVI, JPEG
Video playback	Yes

File Management		Yes, can be deleted or overwrite
Web browsing requirement		
OS		Windows 2000, XP, 2003, IE 6 or above
Hardware	Suggested	Intel-C 2.0G, RAM: 512MB, Graphic card: 64MB
	Minimum	Intel-C 1.6G, RAM: 256MB, Graphic card: 32MB

III. Product Installation

A. Hardware Installation

i. Connect power adaptor

ii. Connect Ethernet cable

iii. Set up the network configurations according to the network environment. For further explanation, please refer to chapter VI, “Network Configuration for WB-8211SDUU”.

B. IP Assignment

i. Use the software, “IP Installer” to assign the IP address of

WB-8211SDUU. The software is in the attached software CD.

ii. There are two languages for the IP installer

a. IPInstallerCht.exe: Chinese version

b. IPInstallerEng.exe: English version

iii. There are 3 kinds of IP configuration.

a. Fixed IP (Public IP or Virtual IP)

b. DHCP (Dynamic IP)

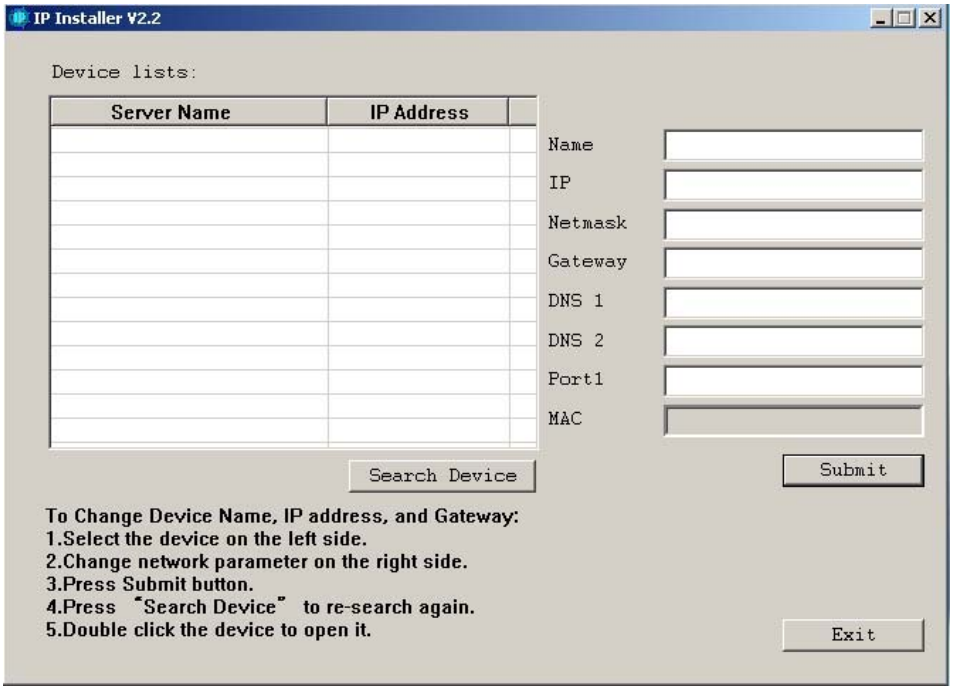
c. Dial-up (PPPoE)

iv. Execute IP Installer

v. For Windows XP SP2 user, it may popup the following message box. Please click “Unblock”.

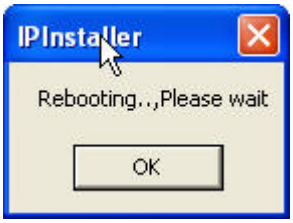
Windows Security Alert
To help protect your computer, Windows Firewall has blocked some features of this program.
Do you want to keep blocking this program?
Name: IPInstaller V2.1 Network Device Scan
Publisher: Unknown
Keep Blocking
Unblock
Ask Me Later
Windows Firewall has blocked this program from accepting connections from the Internet or a network. If you recognize the program or trust the publisher, you can unblock it. When should I unblock a program?

vi. The GUI of the IP Installer:



vii. IP Installer searches all the IP cameras which connect to the intranet and lists on the left side of the IP Installer. Just click the “Search Device” to re-search again.

viii. Click one of the IP camera listed on the left side. The network configuration of this IP camera will show on the right side. Change the parameter and click “Submit”. The following dialogue box will show. Just click “OK”. It will the change the IP and reboot the camera.

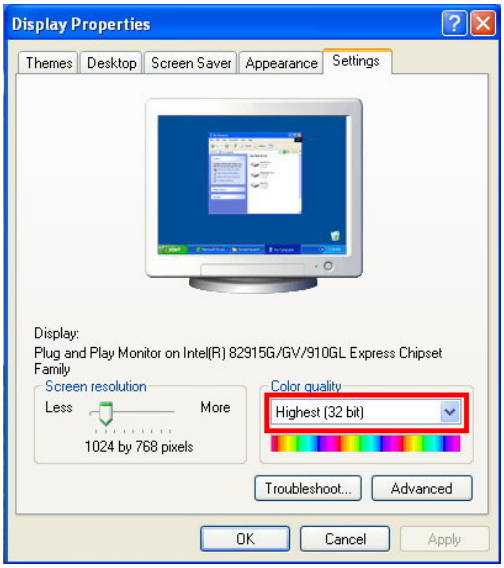


ix. Click “Search Device” to research the IP camera. Double click the IP camera listed on the left side. It will open an IE browser and connect to this IP camera directly.

C. Monitor Setting

i. Right-Click on the desktop. Select “ Properties”

ii. Change color quality to highest (32bit).



D. Install ActiveX control:

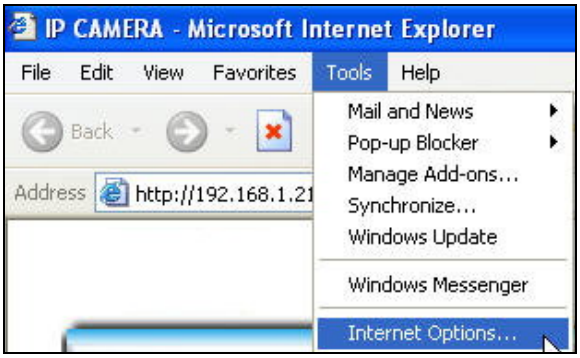
For the first time to view the camera video via IE, it will ask you to install the ActiveX component.

If the installation failed, please check the security setting for the IE browser.

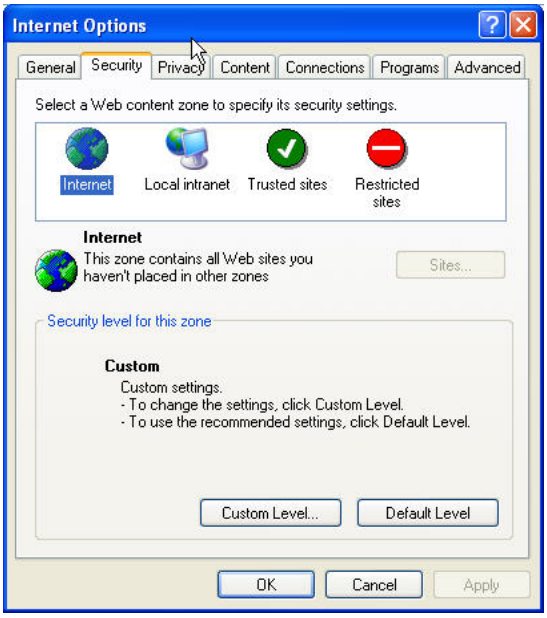
i. IE → Tools → Internet Options… → Security Tab → Custom Level… → Security Settings → Download unsigned ActiveX controls→ Select “Enable” or Prompt.

ii. IE → Tools → Internet Options… → Security Tab → Custom Level… →Initialize and script ActiveX controls not marked as safe → Select “Enable” or Prompt.

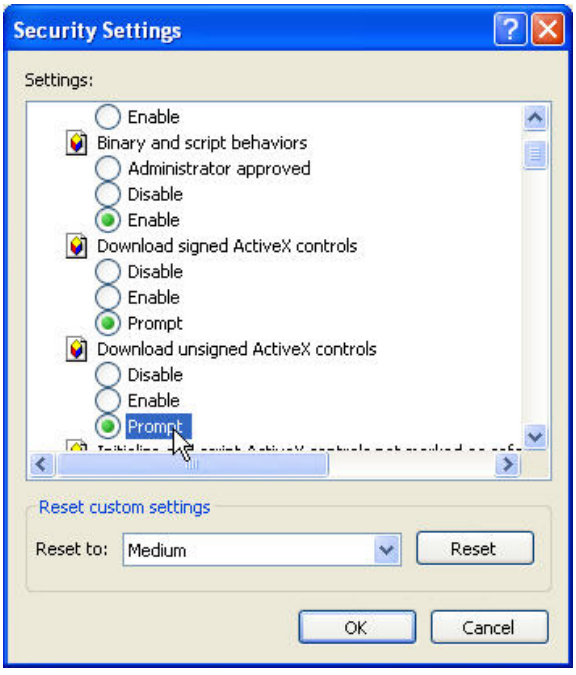
1



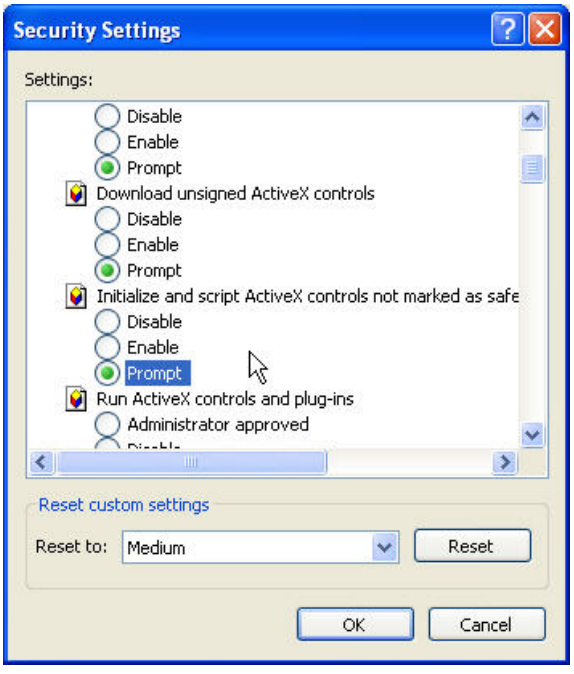
2



3

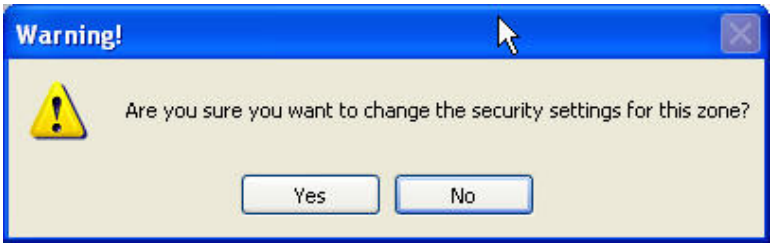


4



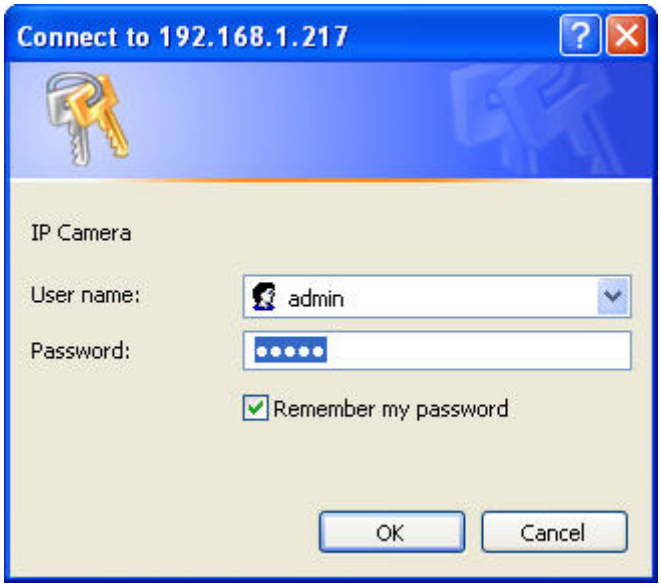
5

When popup the following dialogue box, click “Yes”.



IV. Live Video

Start a IE browser, type the IP address of the IP camera in the address field. It will show the following dialogue box. Key-in the user name and password. The default user name and password are “admin” and “admin”.



When connect to the WB-8211SDUU。The following GUI shows.

1. : Get into the administration page
2. : Video Snapshot
3. Show system time, video resolution, and video refreshing rate
4. WB-8211SDUU supports 2-way audio. Click the “Chatting” check box. The you can use microphone which connect to the PC to talk to server side, which is WB-8211SDUU side.
5. Control the relay which is connected to this video server.
6. Select PTZ protocol to control the PTZ camera which it connected to this video server. The PTZ function will be slightly different depends on which protocol to use.

Right-Click the mouse on the video, it will show a pop-up menu.

1. Snapshot: Save a jpg picture
2. Record Start: Record the video in the local PC. It will ask you where to save the video. To stop recording, right-click the mouse again. Select “Record Stop”. The video format is AVI. Use Microsoft Media Player to play the recorded file.
3. Mute: Turn of the audio. Click again to turn on it.
4. Full Screen: Full-screen mode.

V. WB-8211SDUU Configuration

Click to get into the administration page. Click to back to the live video page.

A.System

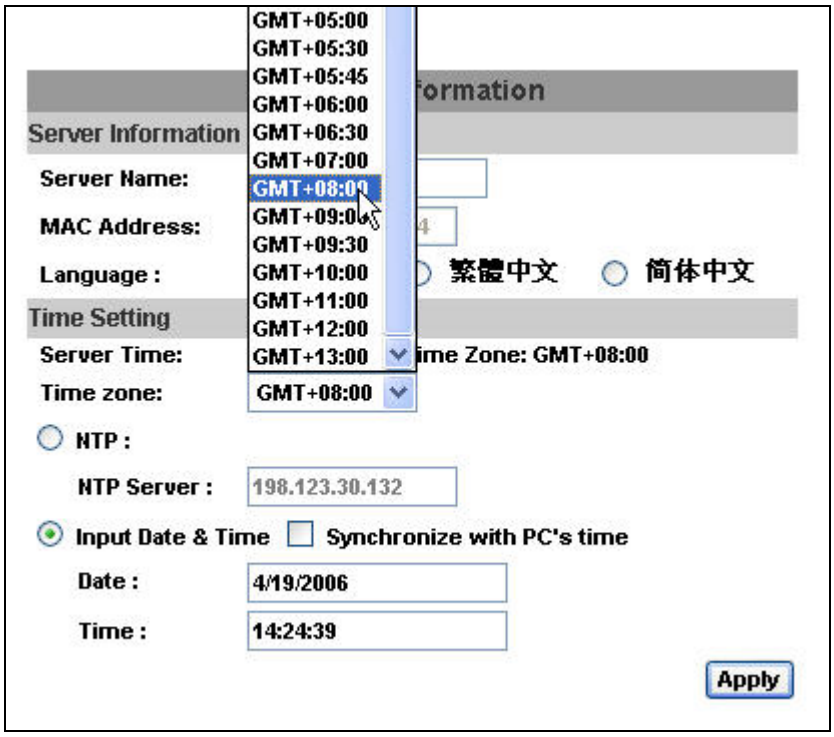
i、 System Information

Set up the camera name, select language, and set up the camera time.

a. Server Name: This is the Camera name. This name will show on the IP Installer.

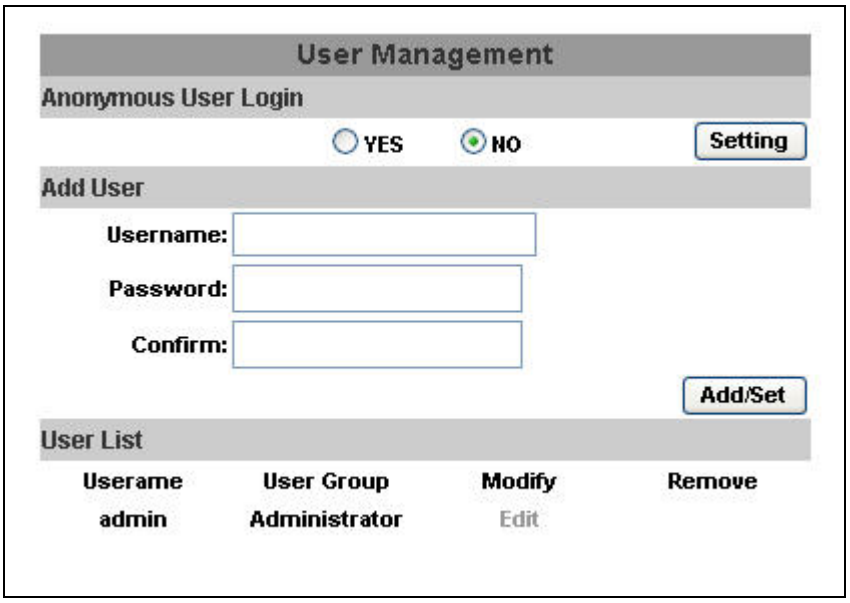
b. Select language: There are English, Traditional Chinese, and Simple Chinese to select. When change, it will show the following dialogue box for the confirmation of changing language.

c. Server time setting: Use NTP or Input Date & Time manually.



ii、 User Management

WB-8211SDUU supports three different users, administrator, general user, and anonymous user.

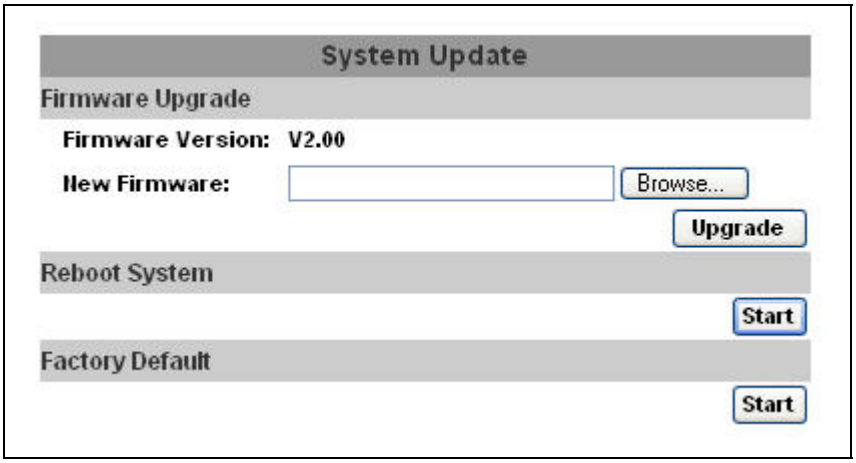


a. Anonymous User Login:
Yes: Allow anonymous login
No: Need user name & password to access this IP camera

b. Add user:
Type the user name and password, then click “Add/Set”.

c. Click “edit” or “delete” to modify the user.

iii、 System update:

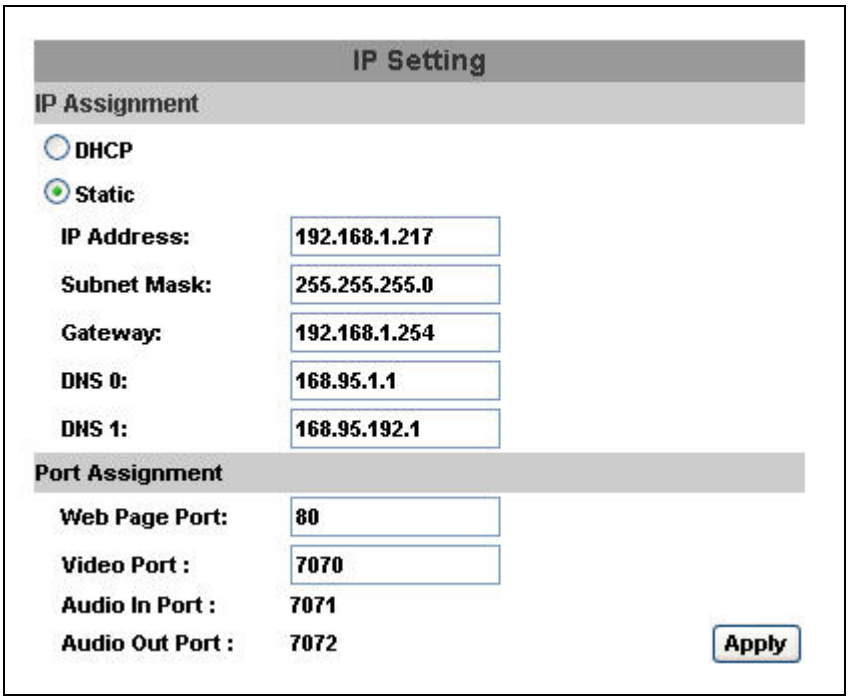


To update the firmware online, click “Browse…” to select the firmware. Then click “Upgrade” to the procedure.

Reboot system: re-start the IP camera
Factory default: delete all the settings in this IP camera.

B.Network

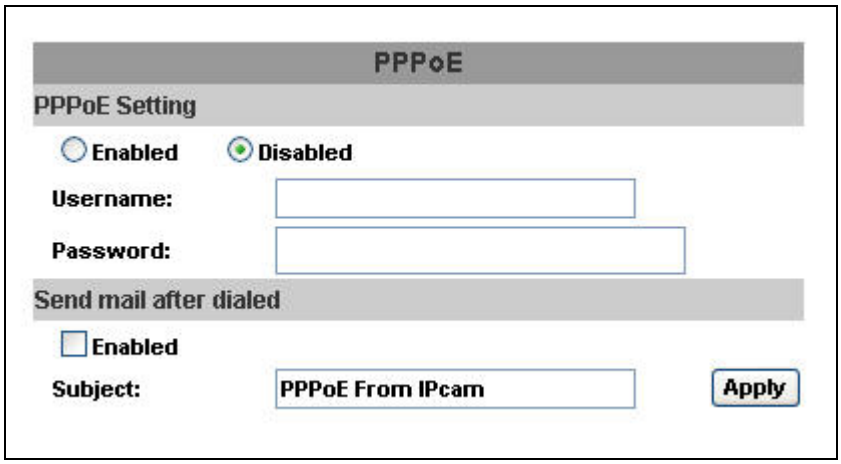
i、 IP Setting
WB-8211SDUU supports DHCP and static IP.



a. Static IP：Type IP address, subnet mask, gateway, and DNS manually.

b. DHCP：Using DHCP, WB-8211SDUU will get all the network parameters automatically.

1.1.1 PPPoE:



Select “Enabled” to use PPPoE.

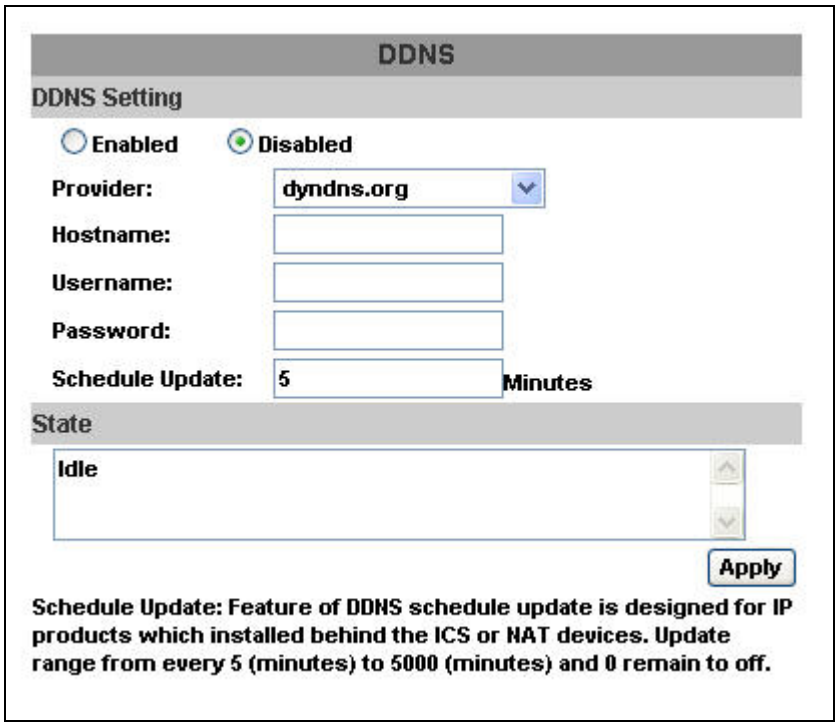
Key-in Username and password for the ADSL connection.

Send mail after dialed: When connect to the internet, it will send a mail to a specific mail account. For the mail setting, please refer to “Mail and FTP” settings.

ii、 DDNS:

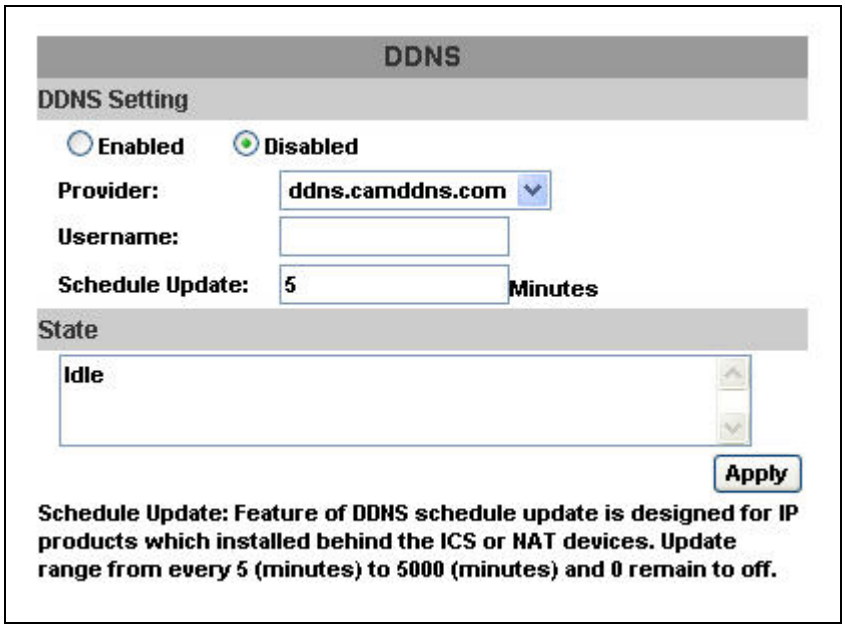
WB-8211SDUU supports DDNS (Dynamic DNS) service.

a. DynDNS；



1. Enable this service
2. Key-in the DynDNS server name, user name, and password.
3. Set up the IP refreshing rate.
4. Click “Apply”

b. Camddns service:

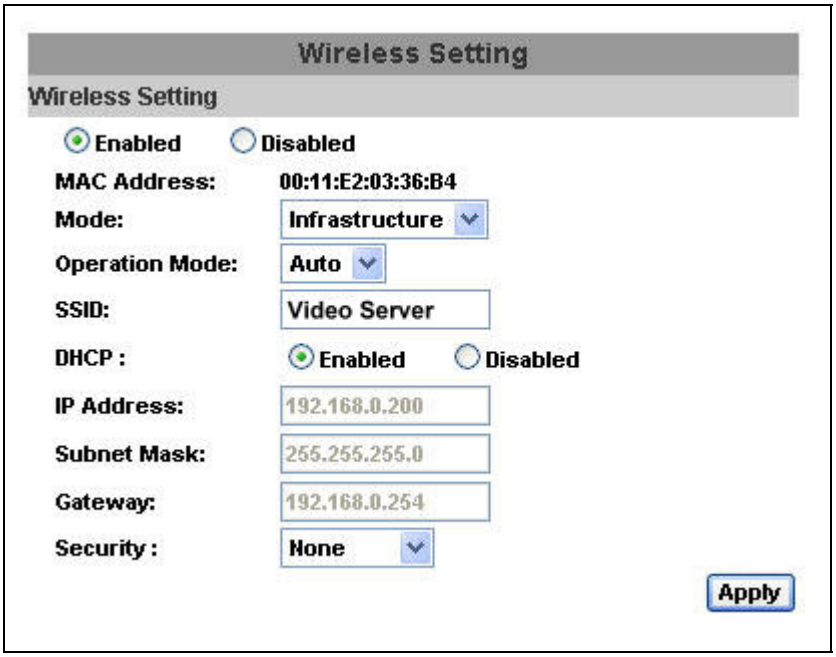


1. Key-in user name.
2. Click “Apply”.

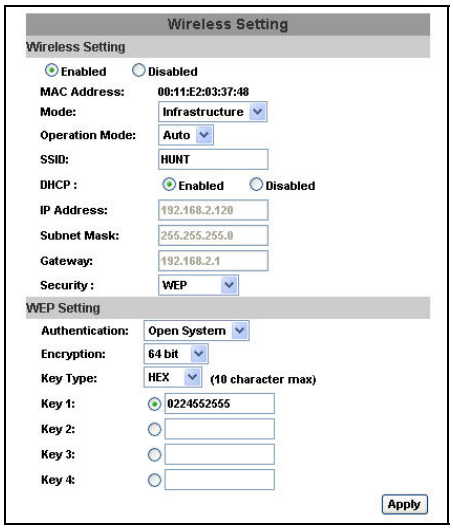
c. DDNS Status

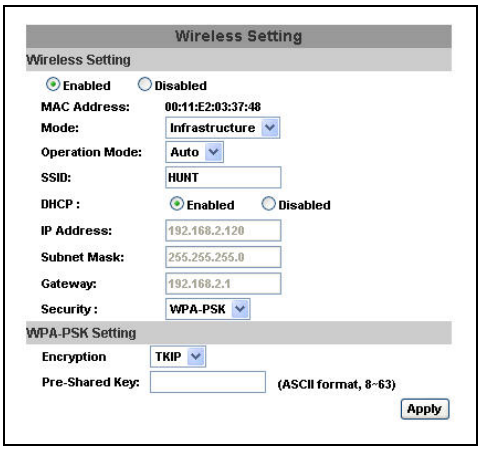
1. Updating: Information update
2. Idle: Stop service
3. DDNS registration successful, can now log by http://<username>.ddns.camddns.com: Register successfully.
4. Update Failed, the name is already registered: The user name has already been used. Please change it.
5. Update Failed, please check your internet connection: Network connection failed.
6. Update Failed, please check the account information you provide: The server, user name, and password may be wrong.

iii、 Wireless Setting (This section is for WB-8211SDUU/ wireless only)
WB-8211SDUU/ wireless supports 802.11 b/g wireless connection.



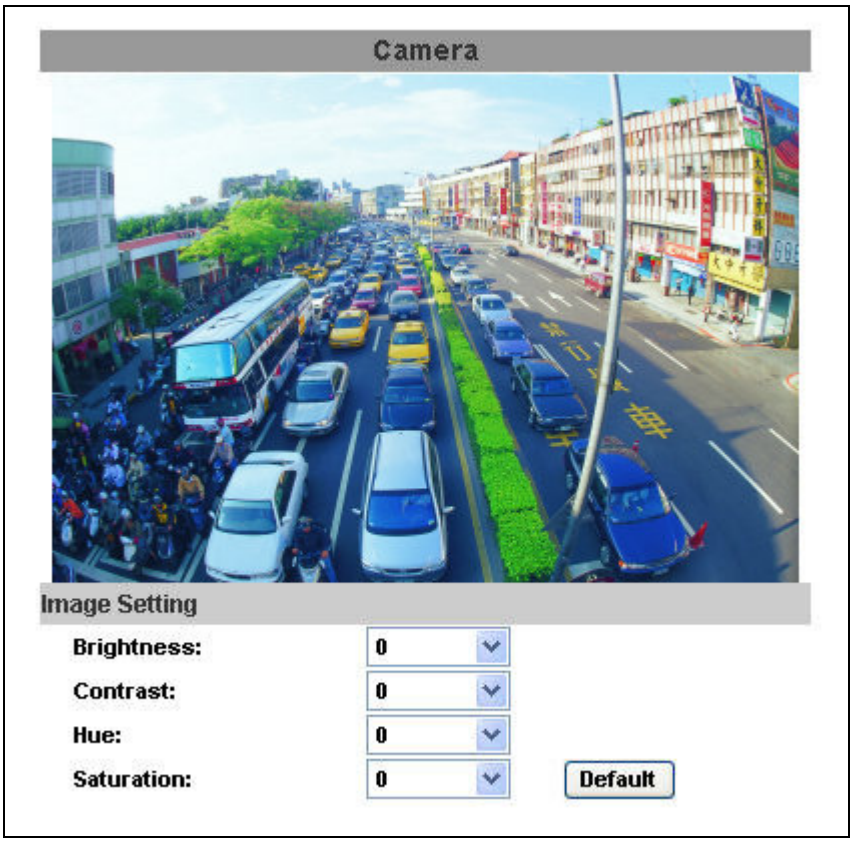
a. Click “Enabled” to enable wireless connection
b. Follow the wireless AP you use to set up the parameter in this page.
c. For operation mode, it will detect the wireless mode, or you can select by yourself.
d. To use static IP, disable the DHCP.
e. WB-8211SDUUW supports “WEP” and “WPA-PSK” security encryption.





C.Multimedia

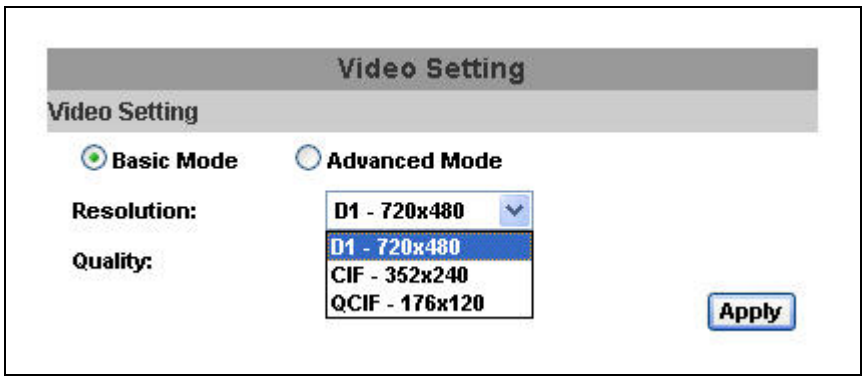
i、 Image Setting



Adjust “Brightness”, “Contrast”, “Hue”, “Saturation” and “AE Reference” to get clear video.

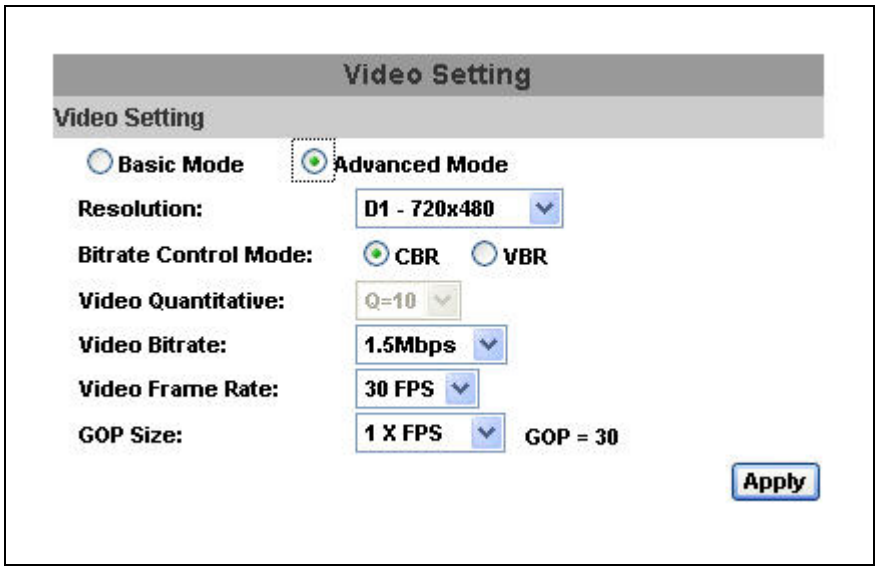
ii、 Video Setting

a. Basic Mode:



1. Resoultion:
   There are 3 resolutions to choose.
   Full D1 – 720X480 (NTSC), 720X576 (PAL)
   CIF – 352X240 (NTSC), 352X288 (PAL)
   QCIF – 176X120 (NTSC), 176X144 (PAL)
2. Quality:
   There are 5 levels to adjust, The higher the quality is, the bigger the file size is.
3. Video System:
   Please select 60 (Hz) if you are in America, Taiwan…
   Please select 50 (Hz) if you are in Europe, China…

b. Advanced Mode:



1. Resoultion:
   There are 3 resolutions to choose.
   Full D1 – 720X480 (NTSC), 720X576 (PAL)
   CIF – 352X240 (NTSC), 352X288 (PAL)
   QCIF – 176X120 (NTSC), 176X144 (PAL)
2. Bitrate Control Mode

There are CBR(Constant Bit Rate) and VBR(Variable Bit Rate) to use.

CBR；64Kbps~4Mbps。

VBR：Q=3~30。

3. Video Frame Rate
   The video refreshing rate per second.
4. GOP
   It means "Group of Pictures". The higher the GOP is, the better the quality is.

iii、 Audio:
WB-8211SDUU supports 2-way audio.

a. For IP camera to local PC, select “Enable” to start this function.

b. For local PC to IP camera, check “chatting” in the browsing page.

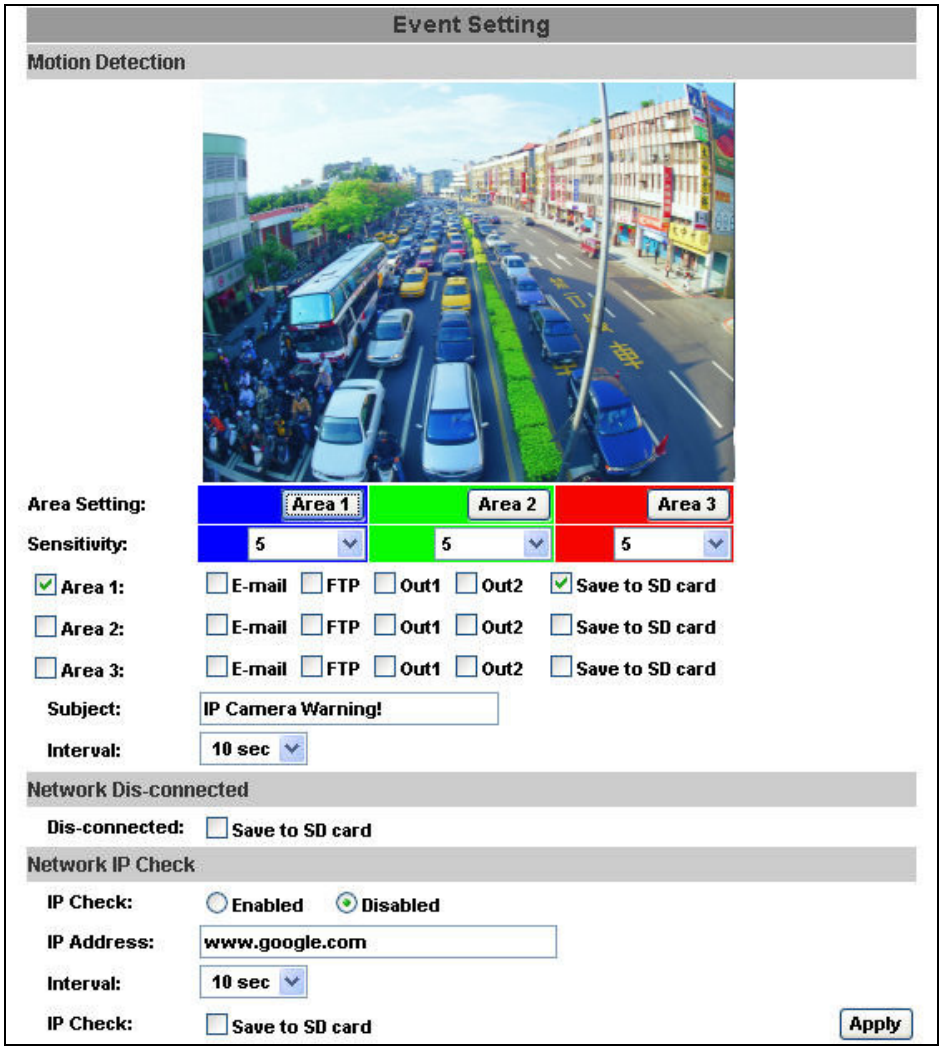
The Audio will not be smooth when enable SD card recording function simultaneously.

D.Event

WB-8211SDUU provides multiple event settings.

i、 Event Setting

a. Motion Detection



WB-8211SDUU allows 3 areas motion detection. When motion is triggered, it can send the video to some specific mail addresses, transmit the video to remote ftp server, and save video to local SD card. To set up the motion area, click “Area Setting”. Using mouse to drag the area. The same operation for area 2 and 3.

b. Network Dis-connected

When the network is down, it will save the video to local SD card. This function is only enabled in wire connection.

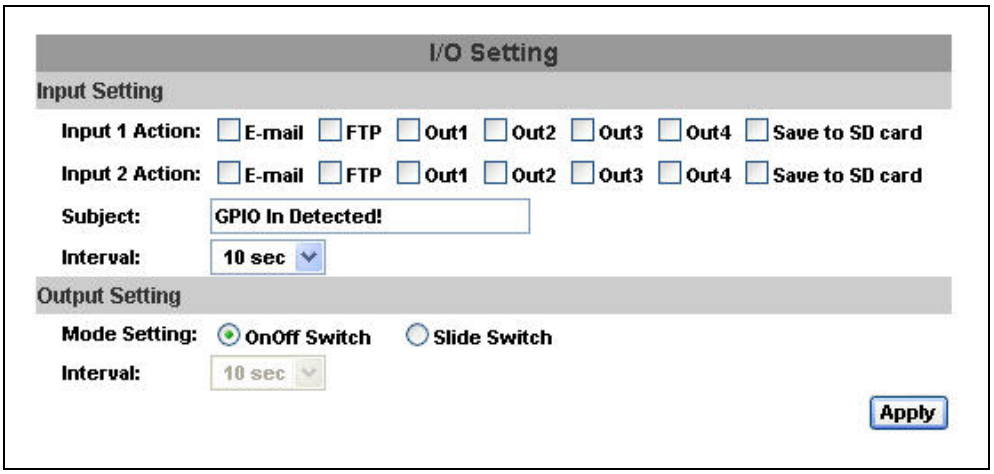
c. Network IP check

For the use of recording software, WB-8211SDUU supports the

detection of this connection. Whenever the connection is down, it records the video to SD card. Make sure the video recording is continuous. To use this function, key in the IP address of the PC which is installed the recording software, enable the function of “Save to SD card”, then click “Apply”.

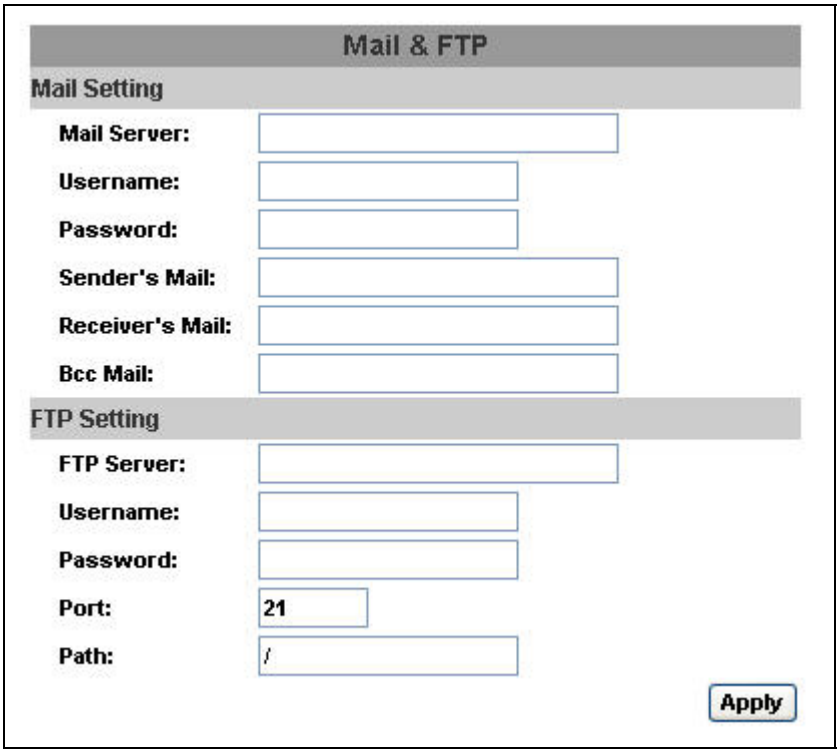
ii、 I/O Setting

HLC-830 supports 2 input/ 4 output. When input is triggered, it can send the video to some specific mail addresses, transmit the video to remote ftp server, trigger the relay, and save video to local SD card.


I/O Setting
Input Setting
Input 1 Action: E-mail FTP Out1 Out2 Out3 Out4 Save to SD card
Input 2 Action: E-mail FTP Out1 Out2 Out3 Out4 Save to SD card
Subject: GPIO In Detected!
Interval: 10 sec
Output Setting
Mode Setting: OnOff Switch Slide Switch
Interval: 10 sec
Apply

iii、 Mail & FTP

To send out the video via mail of ftp, please set up the configuration first.

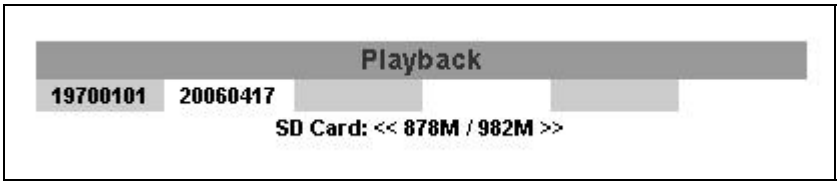


iv、 SD card

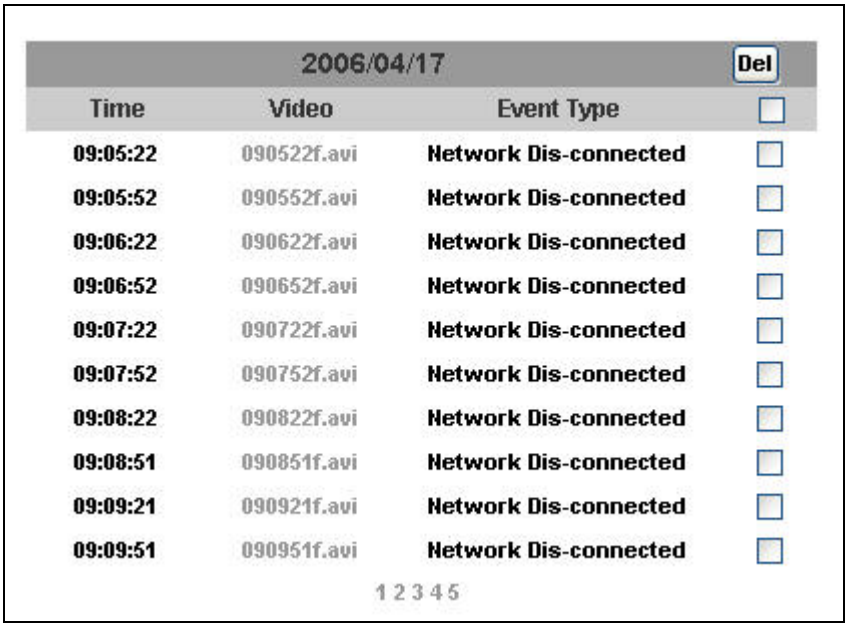
Please Insert SD card before use it. Make sure pushing SD card into the slot completely.

> Note: The use of the SD card will affect the operation of the HLC-830 slightly, such as affecting the frame rate of the video.

a. Playback:



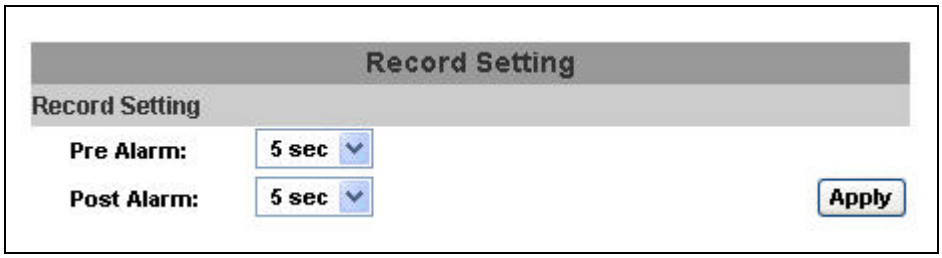
1. It will show the capacity of the SD card. Click the date listed on this page. It will show the list of the video.



2. The video format is AVI. Click the video to start Microsoft Media Player to play it.
3. To delete the video, check it, then click Del. When the SD card

is full, it will remove the oldest video automatically.

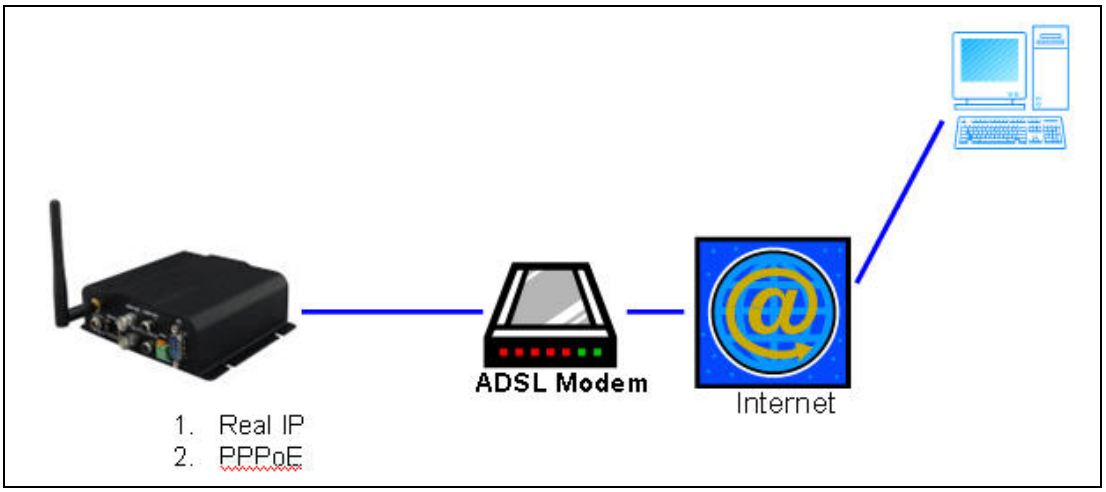
b. Record Setting



The Pre/ Post Alarm are adjustable in WB-8211SDUU.

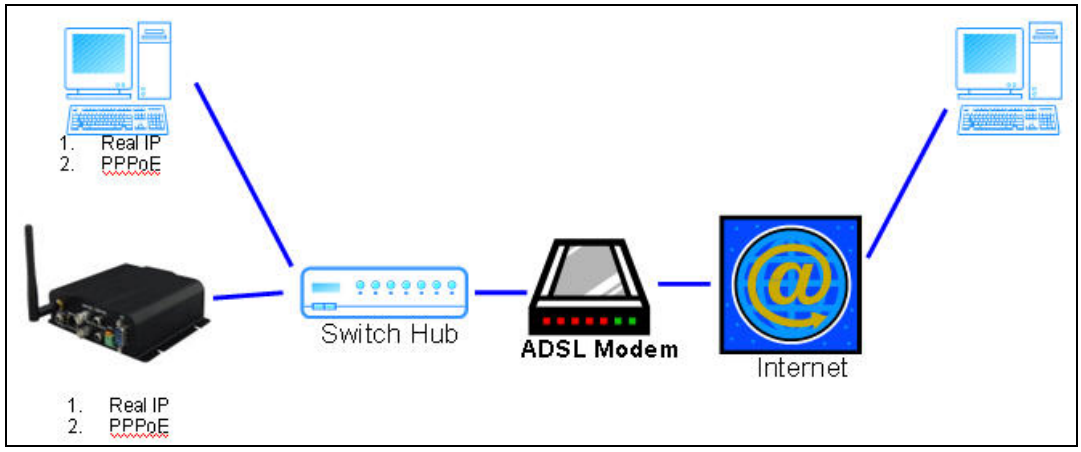
VI. Network Configuration

1. Configuration 1:



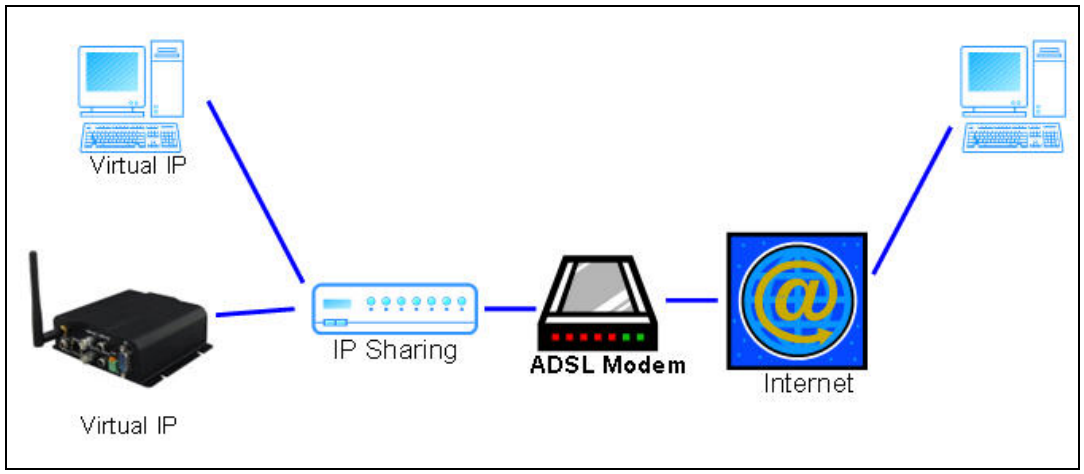
A. Internet Access: ADSL or Cable Modem
B. IP address: One real IP or one dynamic IP
C. Only WB-8211SDUU connects to the internet
D. For fixed real IP, set up the IP into WB-8211SDUU. For dynamic IP, start PPPoE.

2. Configuration 2:



A. Internet Access: ADSL or Cable Modem
B. IP address: More than one real IP or one dynamic IP
C. WB-8211SDUU and PC connect to the internet
D. Device needed: Switch Hub
E. For fixed real IP, set up the IP into WB-8211SDUU and PC. For dynamic IP, start PPPoE.

3. Configuration 3:

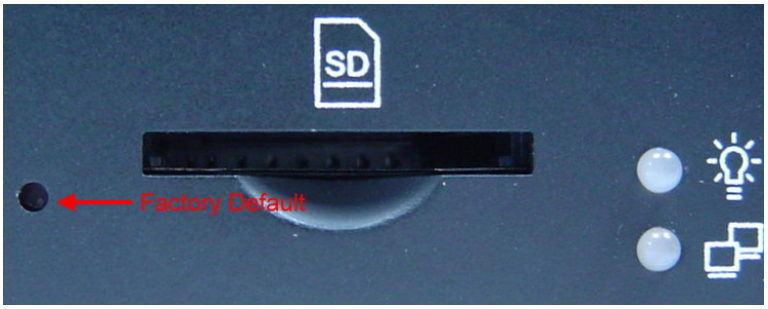


A. Internet Access: ADSL or Cable Modem
B. IP address: one real IP or one dynamic IP
C. WB-8211SDUU and PC connect to the internet
D. Device needed: IP sharing
E. Use virtual IP, set up port forwarding in IP sharing.

VII. Factory Default

1. To recover the default IP address and password, please follow the following steps.

2. Press and hold the button in the back of WB-8211SDUU.



3. Power on the camera. Don’t release the button during the system booting.
4. It will take around 30 seconds to boot the camera.
5. Release the button when camera finishes proceed.
6. Re-login the camera using the default IP (http://192.168.1.200), and user name (admin), password (admin).

VIII. Package contents

1. WB-8211SDUU Video Server
2. Adaptor
3. Ethernet Cable
4. CD title (User manual, IP installation Utility)

Appendix I

SD Card Recommended

SanDisk 128M	**OK**
Tracend 128M 80X	**OK**
SanDisk 256M	**OK**
SanDisk 512M	**OK**
SanDisk 1G	**OK**
SanDisk 2G	**OK**

SanDisk 4G	**OK**
Tracend 256M 80X	**OK**
Tracend 512M 80X	**OK**
Tracend 1G 80X	**OK**
Tracend 2G 80X	**OK**
Tracend 4G 80X	**OK**